

Section 2

Crashes Participants in 2002

Crash Injured Persons and Fatalities 1972-2002.....	2.2
Crash Injury Severity	2.4
Crash Participants, Injured Persons and Crash Fatalities by County	2.5
Characteristics of Crash Participants	2.8

TABLES

Table 2.01	Crash Injured Persons and Fatalities, Utah 1972-2002
Table 2.02	Crash Participants, Injured Persons and Crash Fatalities by County, Utah 2002
Table 2.03	Injured Severity by Participants' Placement in the Crash, Utah 2002
Table 2.04	Gender of Crash Participants, Injured Persons and Crash Fatalities, Utah 2002
Table 2.05	Age of Crash Participants, Injured Persons and Crash Fatalities, Utah 2002

FIGURES

Figure 2.01	Crash Injured Person Rates per Miles Traveled, Utah 1972-2002
Figure 2.02	Crash Fatality Rates per Miles Traveled, Utah 1972-2002
Figure 2.03	Severity of Injuries as Reported by Police, Utah 2002
Figure 2.04	Injured Persons by County, Utah 2002
Figure 2.05	Crash Fatalities by County, Utah 2002
Figure 2.06	Age of Crash Participants, Utah 2002
Figure 2.07	Age and Gender of Crash Fatalities, Utah 2002

Injured Persons and Fatalities 1972 - 2002

The trends in injuries and fatalities for the past thirty years are shown in Table 2.01. During this time period over 700,000 people have been injured and almost 10,000 people have been killed in a crash.

In 2002, the injured person rate per 100 million vehicle miles traveled (MVMT) was 124.5. This was almost a 1% decrease from the 2001 rate of 125.5. The lowest fatality rate occurred in 2001 at 1.2. There was a 8.0% increase in this rate to 1.3 in 2002.

Table 2.01 Injured Persons and Fatalities, Utah 1972-2002

Year	Million Vehicle Miles Traveled (MVMT)	Injuries	Fatalities	Injury Rate per 100 MVMT	Fatality Rate per 100 MVMT
1972	6,969	18,261	382	262.0	5.5
1973	7,274	18,415	361	253.2	5.0
1974	7,457	16,268	228	218.2	3.1
1975	7,942	17,762	274	223.6	3.5
1976	8,420	18,315	254	217.5	3.0
1977	9,054	19,728	360	217.9	4.0
1978	9,826	21,029	376	214.0	3.8
1979	9,811	20,798	328	212.0	3.3
1980	10,645	17,828	335	167.5	3.1
1981	10,733	18,090	364	168.5	3.4
1982	10,947	17,538	296	160.2	2.7
1983	11,228	18,910	283	168.4	2.5
1984	11,642	20,487	315	176.0	2.7
1985	12,035	21,346	303	177.4	2.5
1986	12,253	21,350	312	174.2	2.5
1987	12,679	19,237	297	151.7	2.3
1988	13,263	19,066	297	143.8	2.2
1989	13,915	19,843	303	142.6	2.2
1990	14,646	20,608	272	140.7	1.9
1991	15,390	19,540	271	127.0	1.8
1992	16,263	22,490	269	138.3	1.7
1993	17,055	25,763	303	151.1	1.8
1994	18,080	28,436	343	157.3	1.9
1995	18,786	28,343	325	150.9	1.7
1996	19,433	30,711	328	158.0	1.7
1997	20,408	31,238	366	153.1	1.8
1998	21,237	30,232	350	142.4	1.6
1999	21,867	29,959	360	137.0	1.6
2000	22,517	30,086	373	133.6	1.7
2001	23,399	29,375	292	125.5	1.2
2002	24,439	30,433	329	124.5	1.3
Total	439,613	701,485	9,849	159.6	2.2

Injured Persons and Fatalities 1972 - 2002

Figure 2.01 reflects the trends in rates of persons injured in crashes per 100 million vehicle miles traveled (MVMT) from 1972 to 2002. The injury rates were highest in the early 1970s.

Figure 2.01 Crash Injured Person Rates per Million Vehicle Miles Traveled, Utah 1972-2002

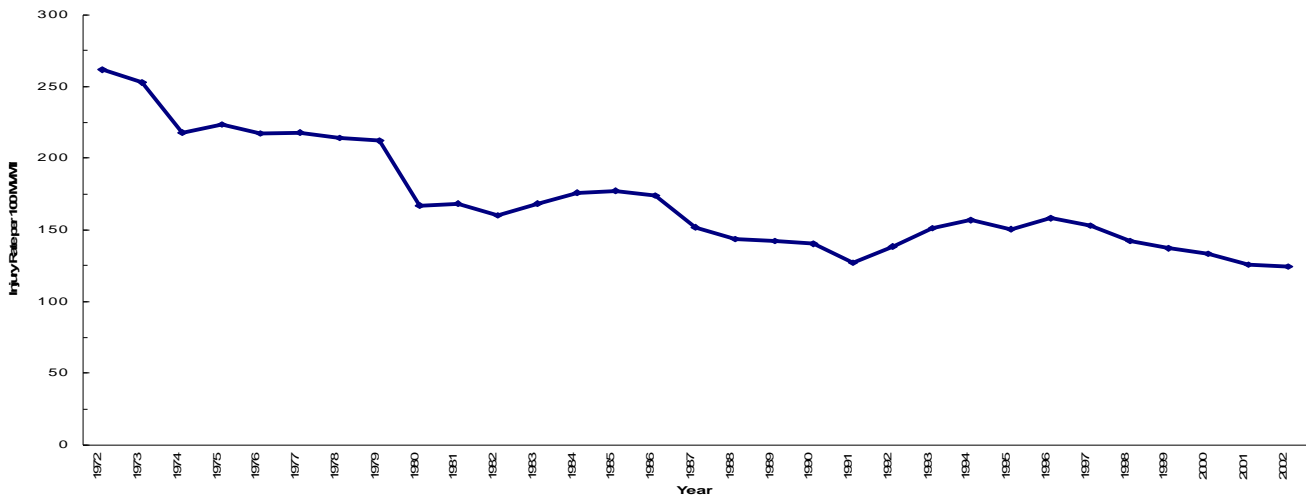
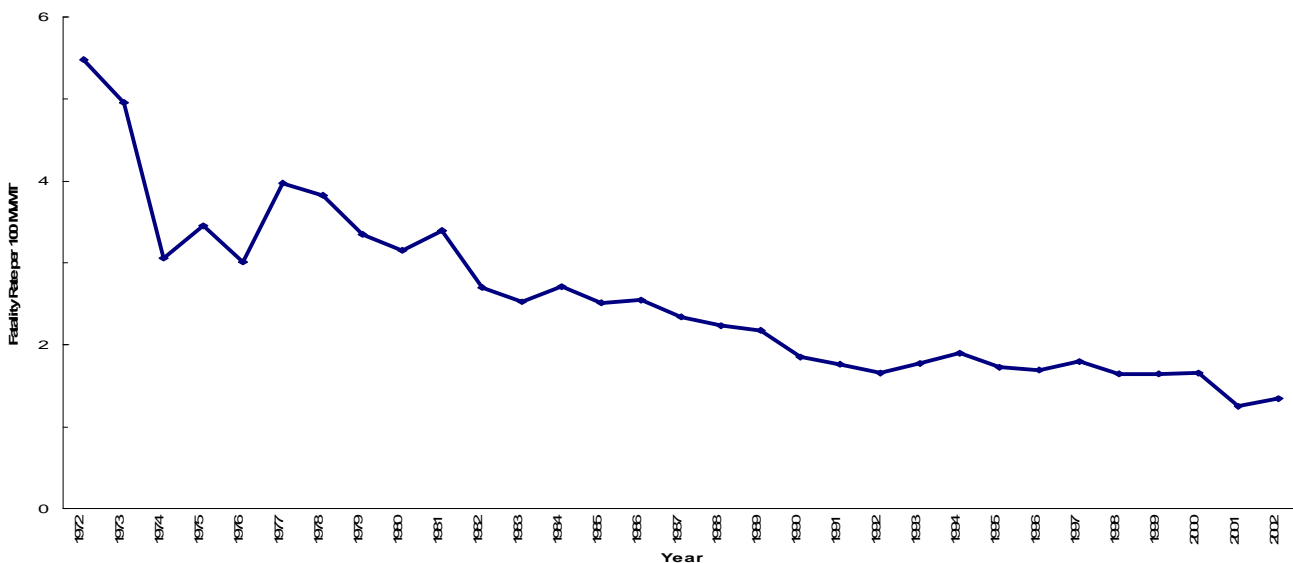


Figure 2.02 shows the trends in the rate of persons killed in crashes per 100 million vehicle miles traveled. The rate has markedly decreased from 5.5 persons killed per 100 MVMT in 1972 to 1.3 persons killed per 100 MVMT in 2002. The biggest decrease in fatalities occurred after the implementation of a 55 MPH speed limit in 1973.

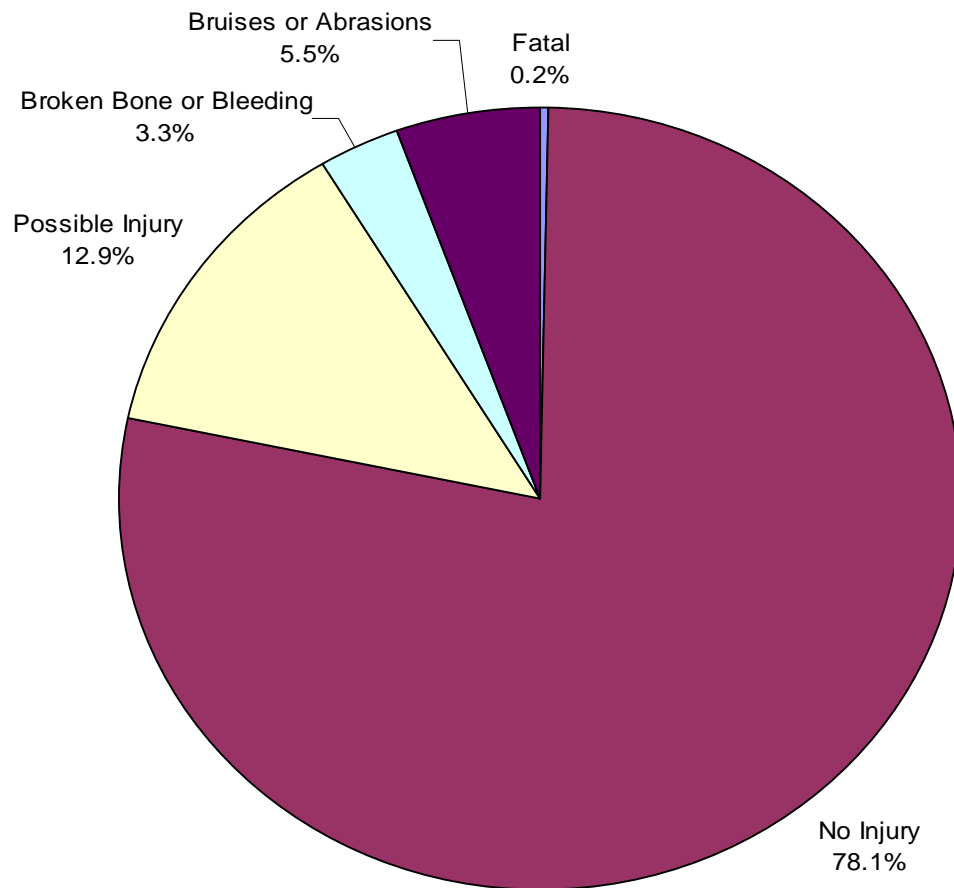
Figure 2.02 Crash Fatality Rates per Million Vehicle Miles Traveled, Utah 1972-2002



Crash Injury Severity

The majority (78.1%) of crash participants did not sustain an injury. Fatal crashes represented 0.5% of total crashes, yet a fatal injury was sustained by 0.2% of total crash participants. These facts indicate that individuals in the same crash have different injury experiences. Many factors influence injury patterns including seatbelt use, seat position, and vehicle safety equipment.

Figure 2.03 Severity of Injuries as Reported by Police, Utah 2002 (n=140,640)



Crash Participants, Injured Persons and Fatalities by County

Figure 2.04 depicts the number of injuries for each county. The leading counties for injured persons were Salt Lake, Utah, and Weber. For more information of crash participants, injured persons and fatalities see Table 2.02.

Figure 2.04 Injured Persons by County, Utah 2002

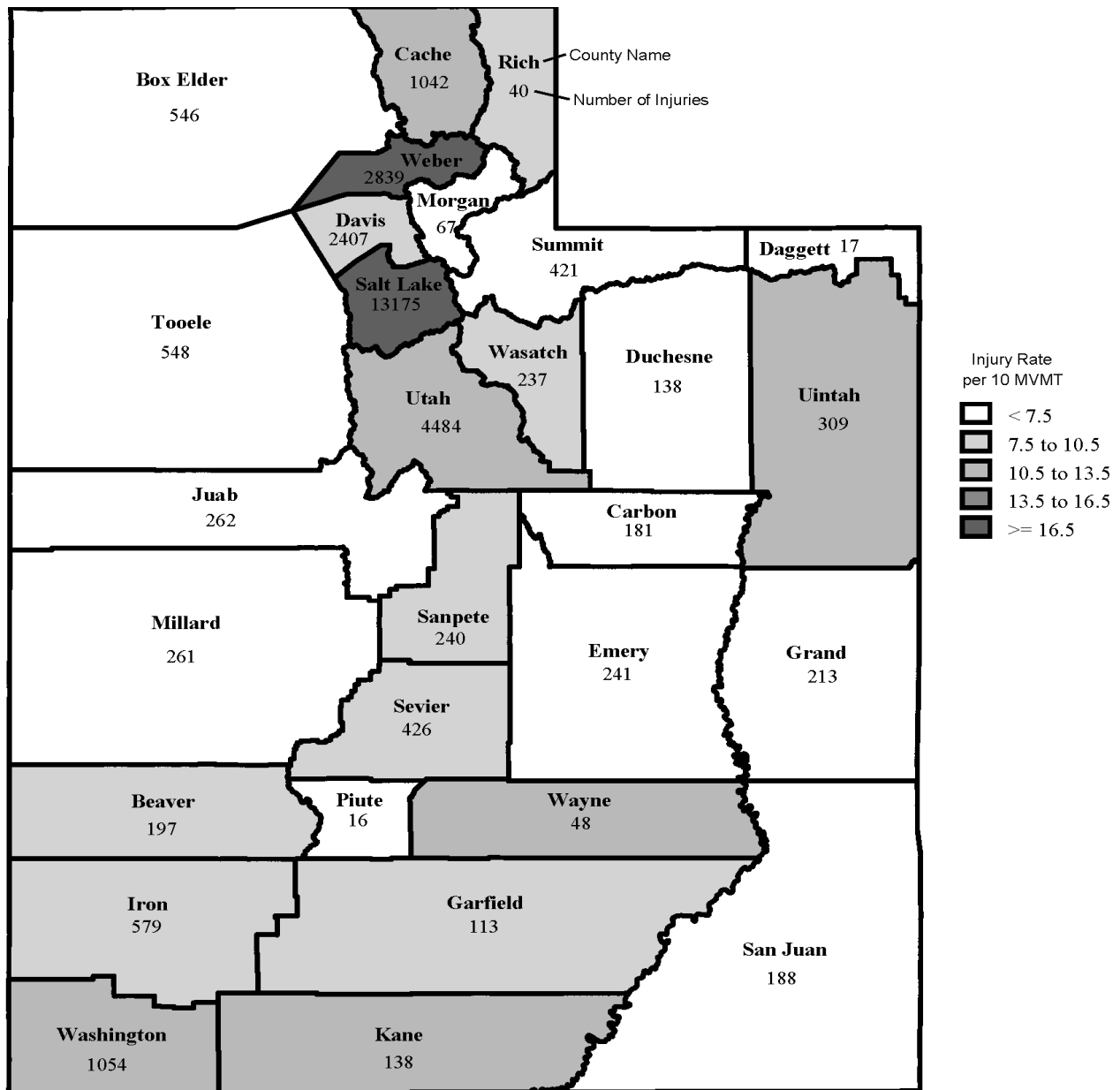
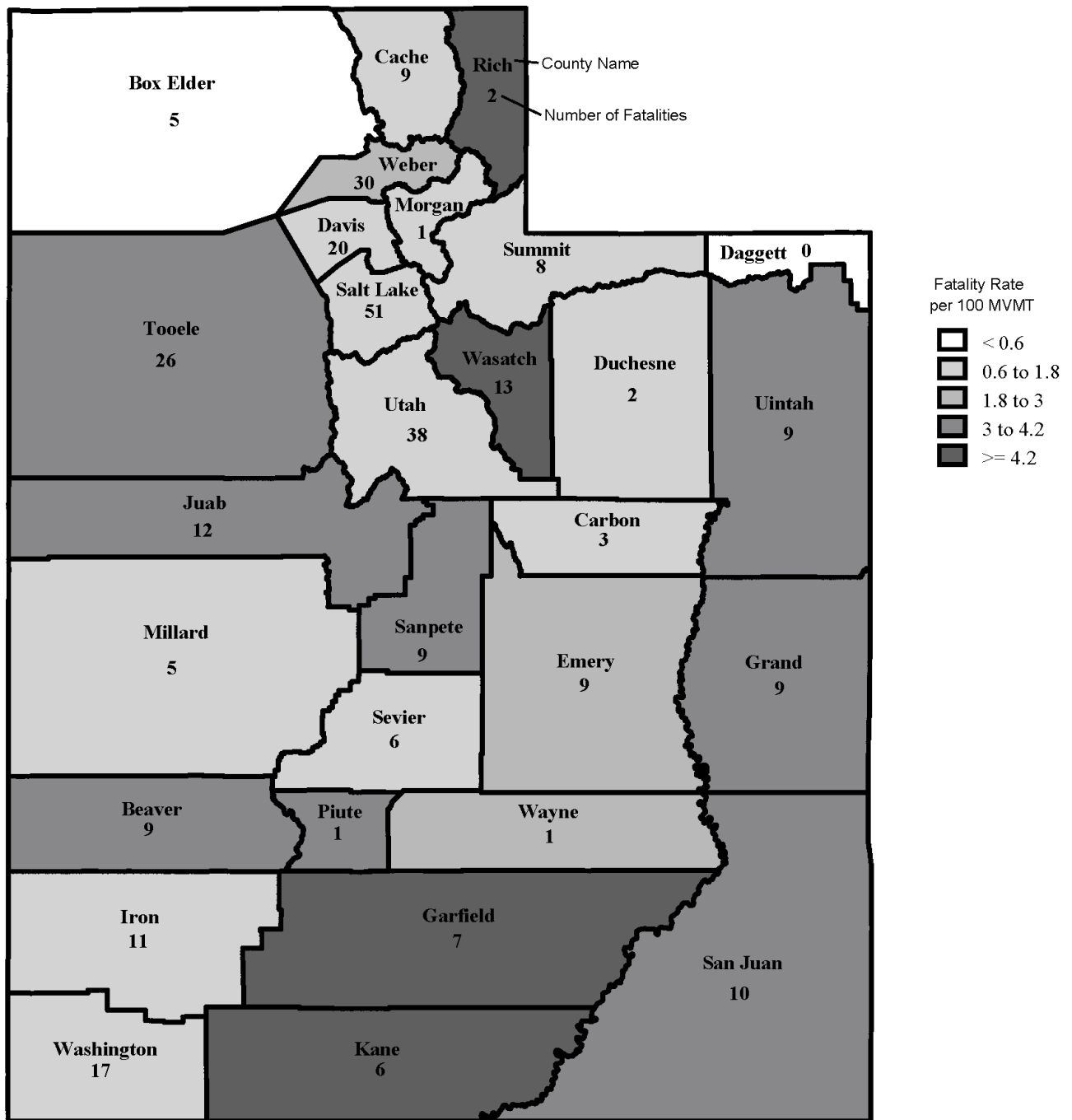


Figure 2.05 depicts the number of crash fatalities for each county. The leading four counties for fatalities were Salt Lake, Utah, Weber, and Davis. For more information of crash participants, injured persons and fatalities see Table 2.02.

Figure 2.05 Crash Fatalities by County, Utah 2002



Crash Participants, Injured Persons and Fatalities by County

Table 2.02 shows the rates of crash participants, injured persons and fatalities for each county. Two different rates are given in Table 2.02; one based on miles traveled in the county and another on the population of the county.

Table 2.02 Crash Participants by County, Utah 2002

County	Non-Injured Crash Persons			Injured Persons			Crash Fatalities			Total Crash Persons		
	Number	Rate per MVMT	Rate Per 10,000 Population	Number	Rate per 10 MVMT	Rate Per 10,000 Population	Number	Rate per 100 MVMT	Rate Per 10,000 Population	Number	Rate per MVMT	Rate Per 10,000 Population
Beaver	592	2.4	949.6	197	8.1	316.0	9	3.7	14.4	798	3.3	1,280.1
Box Elder	1,540	1.6	352.5	546	5.6	125.0	5	0.5	1.1	2,091	2.2	478.7
Cache	4,832	5.8	506.4	1,042	12.6	109.2	9	1.1	0.9	5,883	7.1	616.6
Carbon	802	2.3	399.2	181	5.2	90.1	3	0.9	1.5	986	2.8	490.8
Daggett	54	2.0	567.2	17	6.2	178.6	0	0.0	0.0	71	2.6	745.8
Davis	10,245	4.4	409.8	2,407	10.4	96.3	20	0.9	0.8	12,672	5.5	506.9
Duchesne	477	2.4	322.6	138	6.8	93.3	2	1.0	1.4	617	3.0	417.2
Emery	570	1.5	540.3	241	6.5	228.4	9	2.4	8.5	820	2.2	777.3
Garfield	301	2.2	644.3	113	8.2	241.9	7	5.1	15.0	421	3.1	901.1
Grand	427	1.5	503.0	213	7.3	250.9	9	3.1	10.6	649	2.2	764.5
Iron	1,806	2.9	522.3	579	9.3	167.5	11	1.8	3.2	2,396	3.8	693.0
Juab	568	1.4	643.6	262	6.6	296.9	12	3.0	13.6	842	2.1	954.1
Kane	467	3.6	749.6	138	10.5	221.5	6	4.6	9.6	611	4.7	980.7
Millard	769	1.7	602.5	261	5.9	204.5	5	1.1	3.9	1,035	2.3	810.9
Morgan	240	1.9	333.1	67	5.3	93.0	1	0.8	1.4	308	2.4	427.5
Piute	90	2.7	640.1	16	4.9	113.8	1	3.1	7.1	107	3.3	761.0
Rich	111	2.5	560.9	40	9.2	202.1	2	4.6	10.1	153	3.5	773.1
Salt Lake	48,040	6.0	520.0	13,175	16.5	142.6	51	0.6	0.6	61,266	7.7	663.1
San Juan	474	1.8	332.1	188	7.1	131.7	10	3.8	7.0	672	2.5	470.9
Sanpete	548	2.4	232.8	240	10.5	101.9	9	3.9	3.8	797	3.5	338.5
Sevier	833	2.0	435.0	426	10.4	222.5	6	1.5	3.1	1,265	3.1	660.6
Summit	1,715	2.5	536.2	421	6.2	131.6	8	1.2	2.5	2,144	3.2	670.3
Tooele	1,505	1.9	329.9	548	6.7	120.1	26	3.2	5.7	2,079	2.6	455.8
Uintah	900	3.1	341.5	309	10.6	117.3	9	3.1	3.4	1,218	4.2	462.2
Utah	15,884	4.7	406.0	4,484	13.4	114.6	38	1.1	1.0	20,406	6.1	521.6
Wasatch	997	3.8	600.5	237	8.9	142.7	13	4.9	7.8	1,247	4.7	751.0
Washington	4,197	4.3	424.8	1,054	10.9	106.7	17	1.8	1.7	5,268	5.4	533.2
Wayne	139	3.3	537.7	48	11.3	185.7	1	2.4	3.9	188	4.4	727.3
Weber	10,722	6.7	536.6	2,839	17.8	142.1	30	1.9	1.5	13,591	8.5	680.1
Statewide	19,878	0.8	85.6	30,433	12.5	131.1	329	1.3	1.4	140,640	5.8	605.8

* Million vehicle miles traveled

Characteristics of Crash Participants,

Table 2.03 contains the injury levels by participant placement in the crash. Pedestrians involved in a crash were at the greatest risk for a fatal injury. In fact, pedestrians were 18 times more likely than other crash participants to sustain a fatal injury.

Table 2.03 Injury Severity by Participants Placement in the Crash, Utah 2002

Participant Placement	Non-Injured Crash Persons		Non-Fatally Injured Persons		Fatally Injured Persons		Total Crash Persons	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Driver	75,727	68.9%	19,531	64.2%	179	54.4%	95,437	67.9%
Front Seat Passenger	18,589	16.9%	6,194	20.4%	60	18.2%	24,843	17.7%
Back Seat Passenger	15,097	13.7%	3,207	10.5%	50	15.2%	18,354	13.1%
Cargo Area	255	0.2%	97	0.3%	6	1.8%	358	0.3%
Pedestrian	32	0.0%	664	2.2%	27	8.2%	723	0.5%
Bicyclist	50	0.0%	590	1.9%	4	1.2%	644	0.5%
Other	128	0.1%	150	0.5%	3	0.9%	281	0.2%
Total	109,878	100.0%	30,433	100.0%	329	100.0%	140,640	100.0%

The gender breakdown of crash participants is found in Table 2.04. Over half of the crash participants were male (54.0%). While males sustained fatal injuries at a slightly higher percentage than females, female crash participants were more likely to sustain an injury than male crash participants.

Table 2.04 Gender of Crash Participants, Utah 2002

Gender	Non-Injured Crash Persons		Non-Fatally Injured Persons		Fatally Injured Persons		Total Crash Persons	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Female	46,103	42.0%	15,920	52.3%	118	35.9%	62,141	44.2%
Male	61,455	55.9%	14,248	46.8%	211	64.1%	75,914	54.0%
Missing	2,320	2.1%	265	0.9%	0	0.0%	2,585	1.8%
Total	109,878	100.0%	30,433	100.0%	329	100.0%	140,640	100.0%

Figure 2.06 shows the age of persons involved in crashes. The largest proportion of crash participants (35.5%) were aged 15 to 24 years. While individuals over the age of 65 years represented a small proportion of crash participants, individuals of this age group were 3 times more likely than all other age groups to sustain a fatal injury if involved in a crash.

Figure 2.06 Age of Crash Participants, Utah 2002

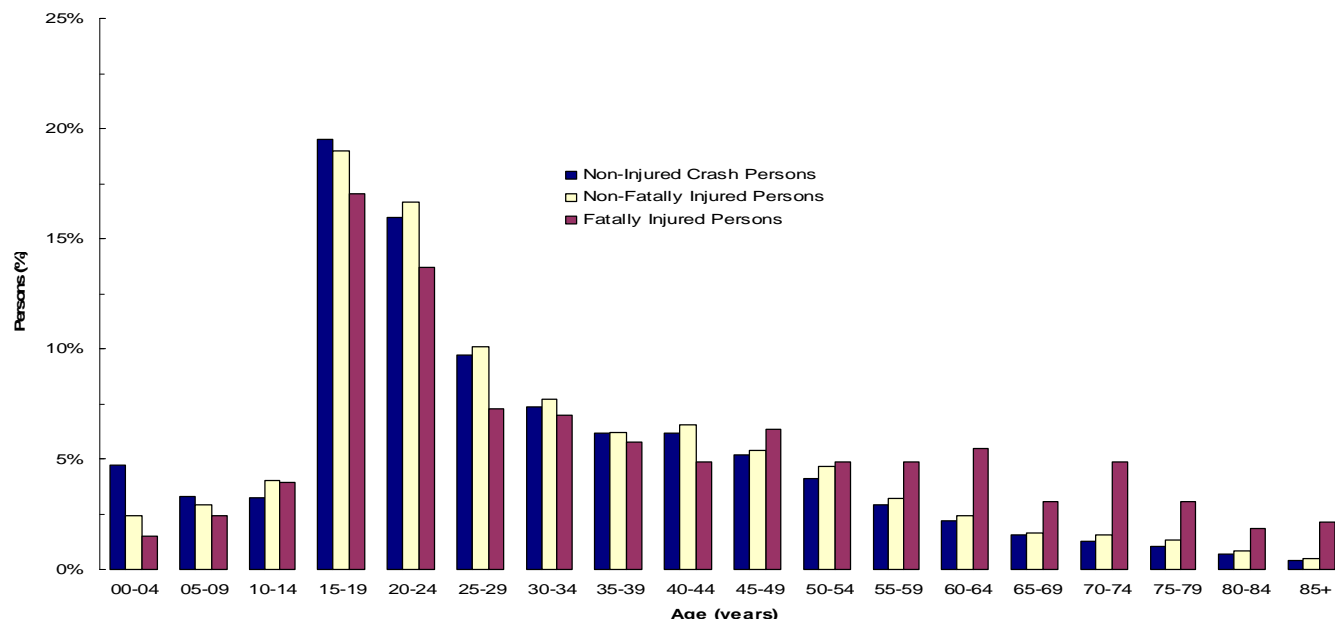


Table 2.05 Age of Crash Participants, Injured Persons and Fatalities, Utah 2002

Age	Non-Injured Crash Persons		Non-Fatally Injured Persons		Fatally Injured Persons		Total Crash Persons	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
00-04	5,170	4.7%	745	2.4%	5	1.5%	5,920	4.2%
05-09	3,632	3.3%	884	2.9%	8	2.4%	4,524	3.2%
10-14	3,578	3.3%	1,223	4.0%	13	4.0%	4,814	3.4%
15-19	21,454	19.5%	5,769	19.0%	56	17.0%	27,279	19.4%
20-24	17,560	16.0%	5,067	16.6%	45	13.7%	22,672	16.1%
25-29	10,661	9.7%	3,070	10.1%	24	7.3%	13,755	9.8%
30-34	8,106	7.4%	2,351	7.7%	23	7.0%	10,480	7.5%
35-39	6,754	6.1%	1,887	6.2%	19	5.8%	8,660	6.2%
40-44	6,787	6.2%	2,000	6.6%	16	4.9%	8,803	6.3%
45-49	5,684	5.2%	1,642	5.4%	21	6.4%	7,347	5.2%
50-54	4,529	4.1%	1,418	4.7%	16	4.9%	5,963	4.2%
55-59	3,212	2.9%	969	3.2%	16	4.9%	4,197	3.0%
60-64	2,404	2.2%	732	2.4%	18	5.5%	3,154	2.2%
65-69	1,731	1.6%	508	1.7%	10	3.0%	2,249	1.6%
70-74	1,386	1.3%	473	1.6%	16	4.9%	1,875	1.3%
75-79	1,127	1.0%	393	1.3%	10	3.0%	1,530	1.1%
80-84	754	0.7%	249	0.8%	6	1.8%	1,009	0.7%
85+	404	0.4%	142	0.5%	7	2.1%	553	0.4%
Missing	4,945	4.5%	911	3.0%	0	0.0%	5,856	4.2%
Total	109,878	100.0%	30,433	100.0%	329	100.0%	140,640	100.0%

There were 329 crash-related fatalities during 2002. Figure 2.07 shows almost a third of the fatalities (31%) occurred among those aged 15 to 24 years. The largest number of fatalities for males and females occurred in the 15 to 19 year old age group.

Figure 2.07 Age and Gender of Fatalities, Utah 2002

